

FIG. 1

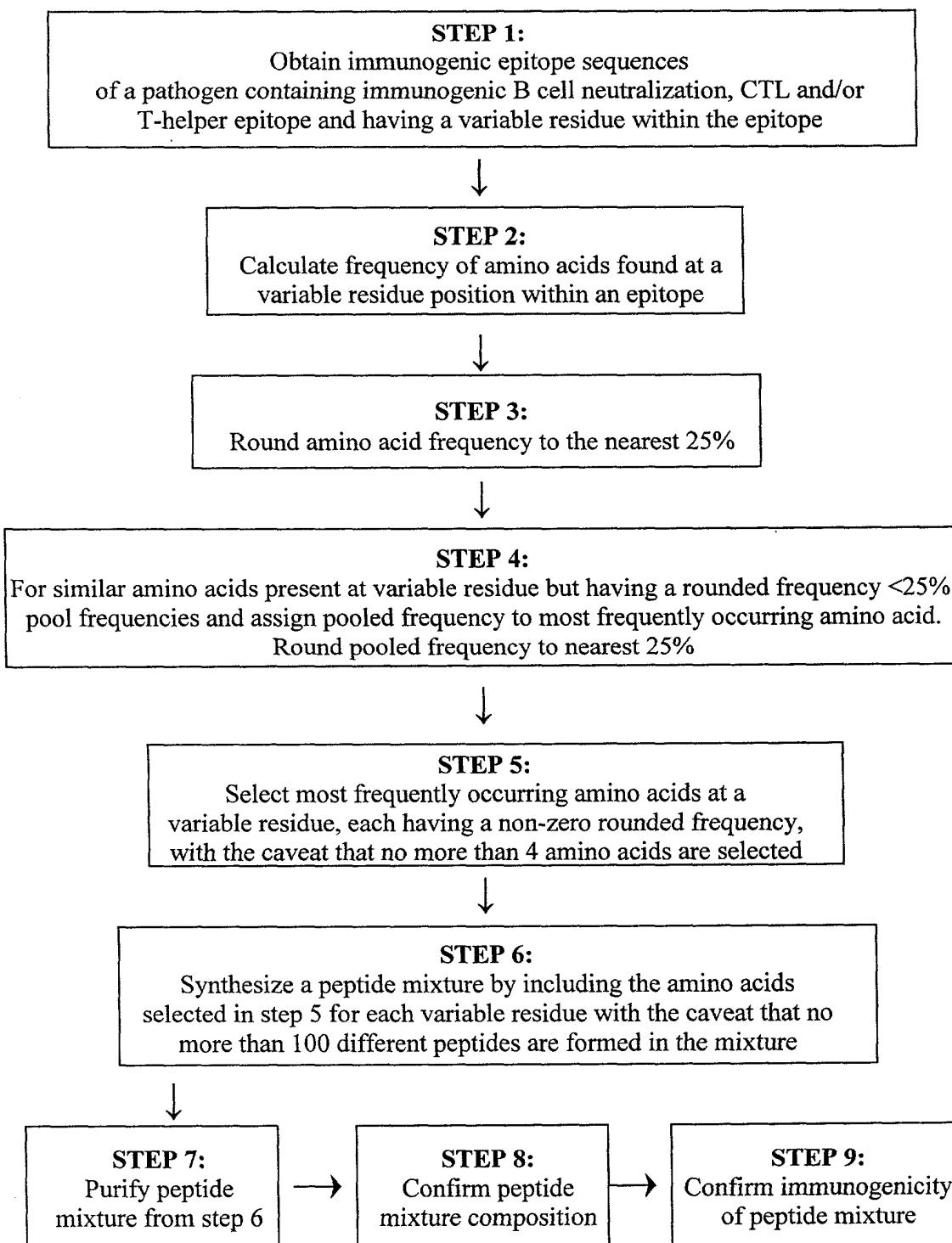


FIG. 2

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FIG. 3

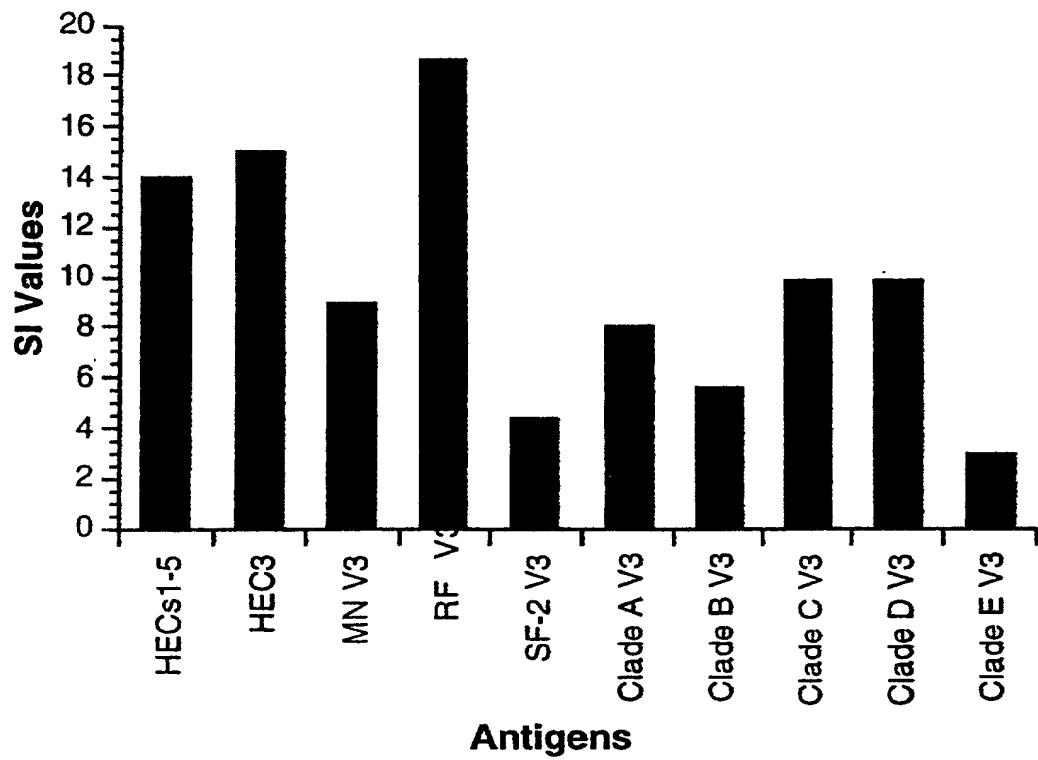


FIG. 4

FIG. 5

MONKEY NO.	ANTIGEN	ANTIBODY TITERS (weeks post immunization)*											
		2	4	6	8	11	13	16	20	37	40	76	96
25705	HECs 1-5	0	100	1000	1000	>40000	>40000	>5000	>5000	1000	1000	1000	1000
	HEC1	0	100	100	500	>40000	>40000	>5000	>5000	1000	1000	1000	1000
	HEC2	0	0	0	0	>40000	>40000	1000	500	100	100	100	100
	HEC3	100	500	500	1000	>40000	>40000	>5000	>5000	1000	100	100	100
	HEC4	0	0	500	500	>40000	>40000	>5000	>5000	1000	1000	1000	1000
	HEC5	0	0	1000	1000	>40000	>40000	1000	500	100	100	100	100
	HECs 1-5	0	100	100	100	>40000	>40000	>5000	>5000	5000	1000	1000	1000
	HEC1	0	0	0	0	>40000	>40000	20000	>5000	>5000	1000	1000	1000
	HEC2	0	0	0	0	20000	50000	50000	>5000	1000	1000	1000	1000
	HEC3	0	100	100	100	>40000	>40000	>5000	>5000	1000	1000	1000	1000
25598	HEC4	0	0	100	100	>40000	>40000	>5000	>5000	5000	5000	5000	5000
	HEC5	0	0	0	0	100000	100000	50000	50000	10000	10000	10000	10000

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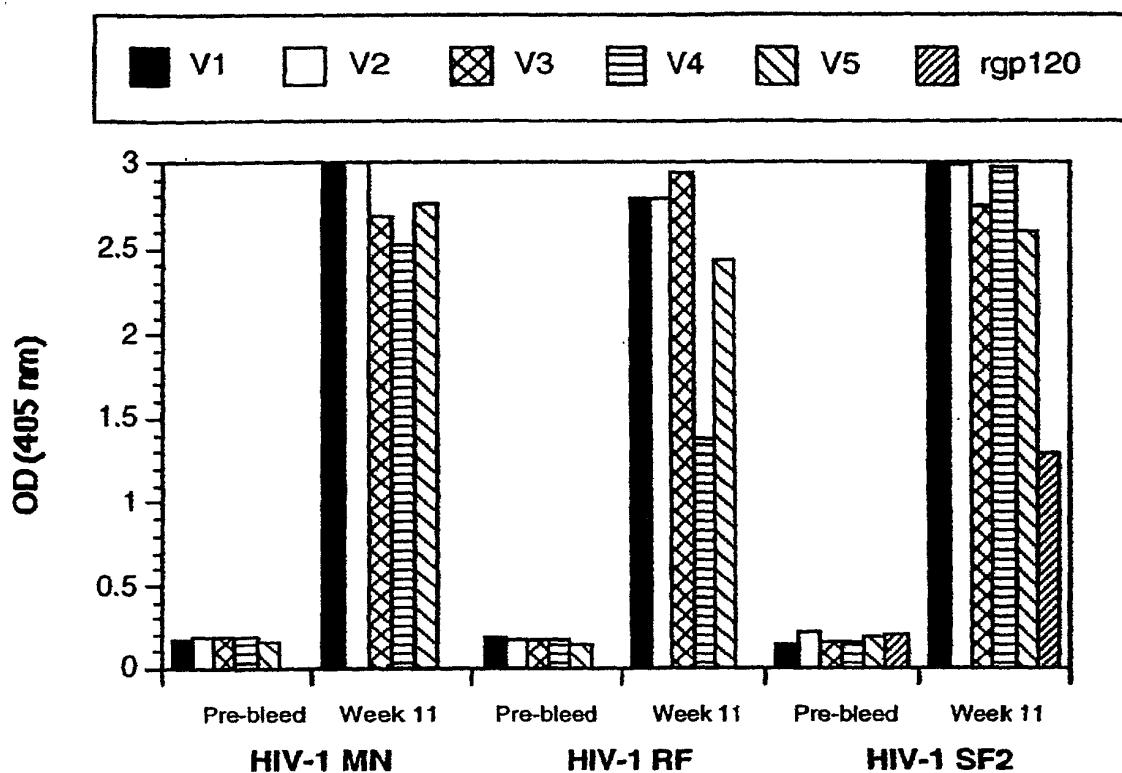


FIG. 6A

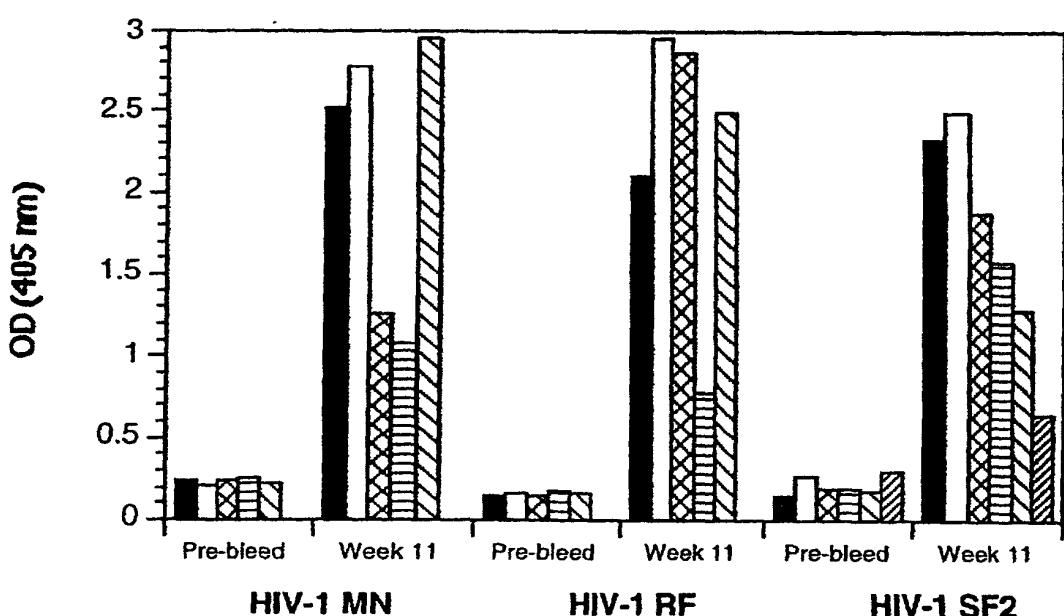


FIG. 6B

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Viral Isolate	Monkey No.	Weeks Post-Immunization	Neutralizing Antibody Titer Inhibition >80% of RT
HIV-1 89.6	25705	Week 11	1:160
		Week 13	1:320
	25598	Week 11	1:160
		Week 13	1:320
	Positive Control		1:2560
HIV-1 III B	25705	Week 11	1:2560
		Week 13	1:1280
	25598	Week 11	1:640
		Week 13	1:320
	Positive Control		1:2560
HIV-1 SF162	25705	Week 11	1:20
		Week 13	1:40
	25598	Week 11	1:40
		Week 13	1:160
	Positive Control		1:1280
SIVmac239	25705	Weeks 11 & 13	none
	25598	Weeks 11 & 13	none
SRV-1	25705	Weeks 11 & 13	none
	25598	Weeks 11 & 13	none

FIG. 7

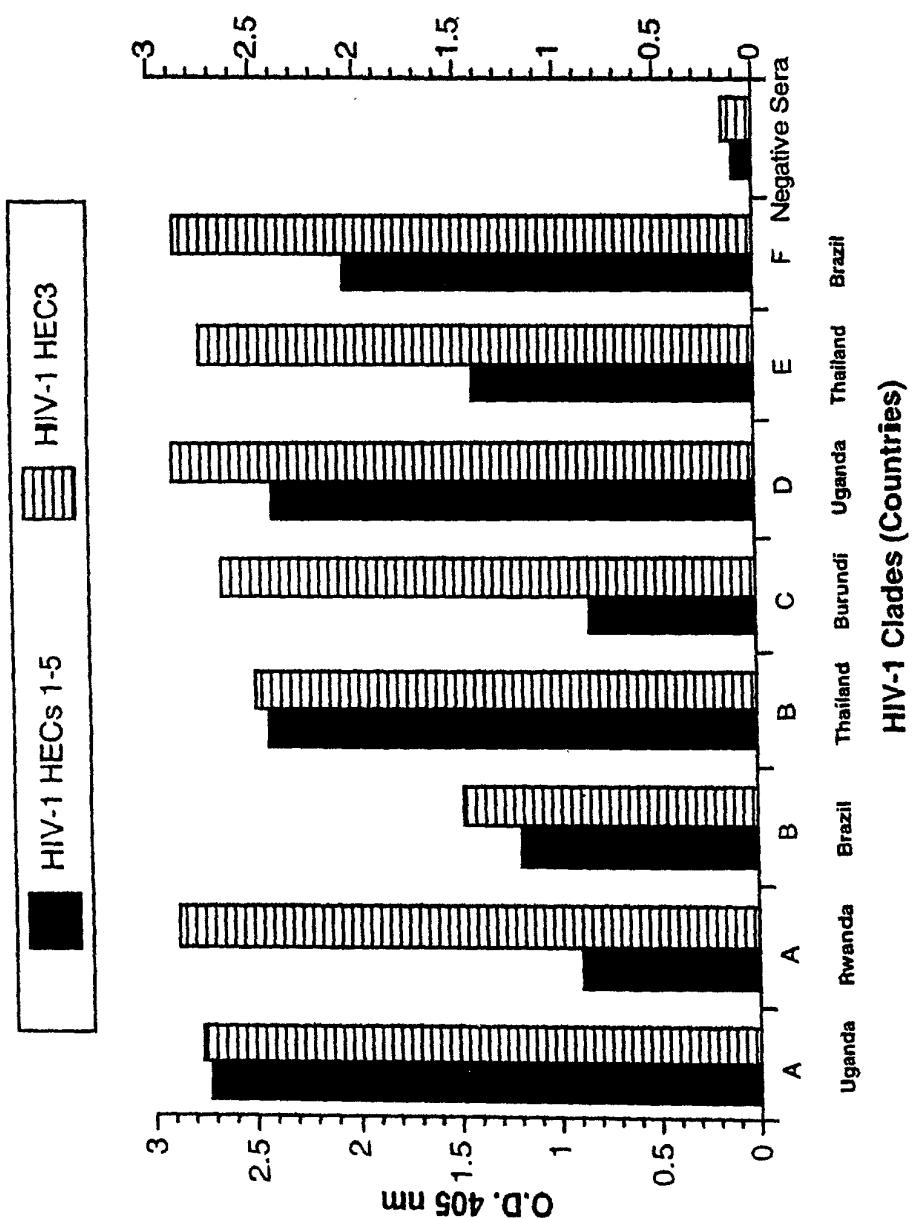


FIG. 8

FIG. 9

position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
% 1 st AA added	100	50	100	50	50	100	100	100	100	100	100	100	100	100	100	50	50	50	100	50	50
1 st AA	E	T	G	K	R	G	G	K	S	S	G	S	S	Y	P	V	L	N	V	S	Y
% 2 nd AA added																			50	50	50
2 nd AA	P		S	H														S	K	M	
Influenza-based HEC 1																					
position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
% 1 st AA added	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1 st AA	K	K	G	S	V	H	H	P	S	T	I	T	E	Q	T	S	L	Y	V	N	A
% 2 nd AA added	50	50																	50	50	
2 nd AA	E	S																Q	Q		
Influenza-based HEC 2																					
position	1	2	3	4	5	6	7	8	9	10	100	100	100	100	100	100	100	100	100	100	100
% 1 st AA added	50	100	50	100	100	100	50	100	100	100	100	100	100	100	100	50	100	100	100	100	100
1 st AA	N	G	L	F	S	K	E	S	P	N	K	N	K	D	P	I	D	T	C	D	
% 2 nd AA added	50	50																50	50		
2 nd AA	K	F														F	M	E			
Influenza-based HEC 3																					
position	1	2	3	4	5	6	7	8	9	10	100	100	100	100	100	100	100	100	100	100	100
% 1 st AA added	50	100	50	100	100	100	50	100	100	100	100	100	100	100	100	50	100	100	100	100	100
1 st AA	Y	V	S	V	S	S	R	I	A	S	R	P	K	V	R	G	Q	G	D	T	
% 2 nd AA added	50	50																50			
2 nd AA	R	T	V	T											G		W				
Influenza-based HEC 4																					

FIG. 10

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20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

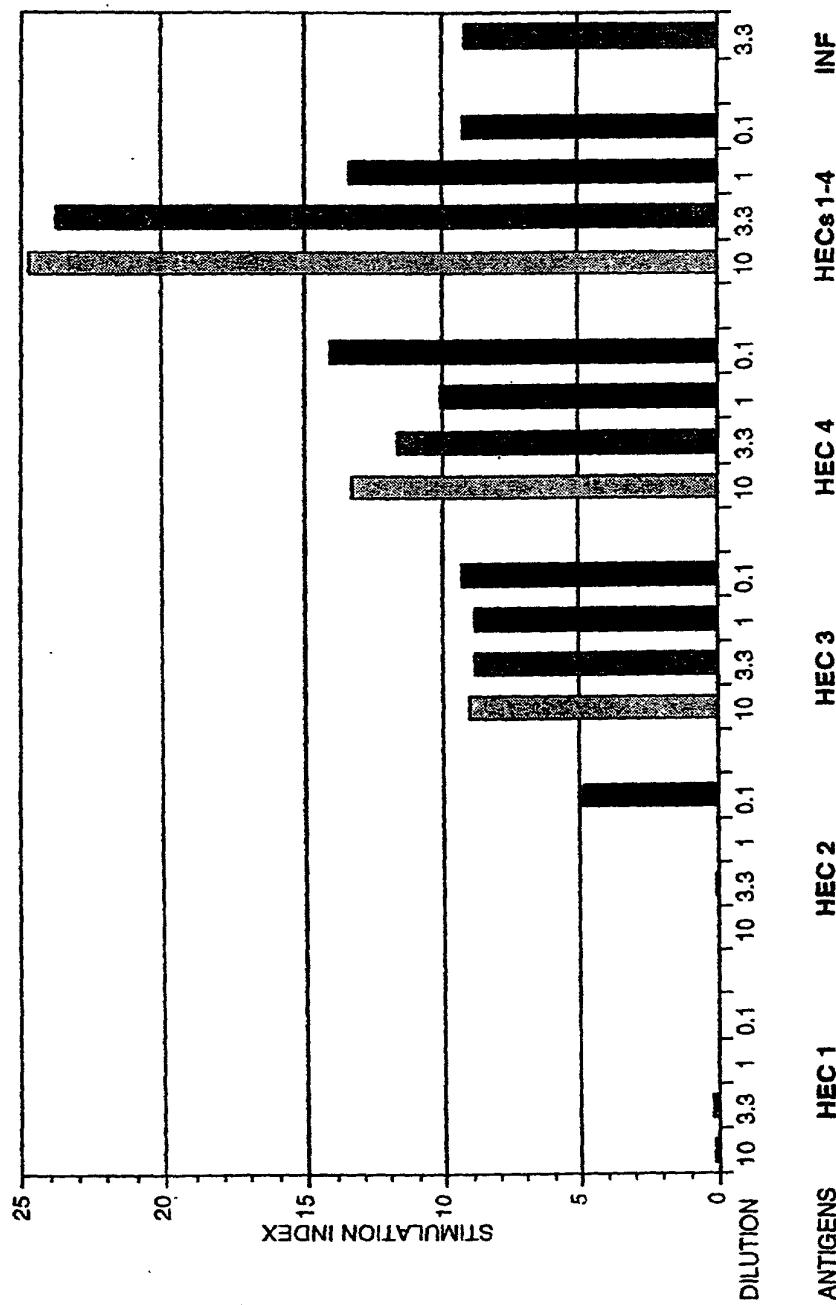
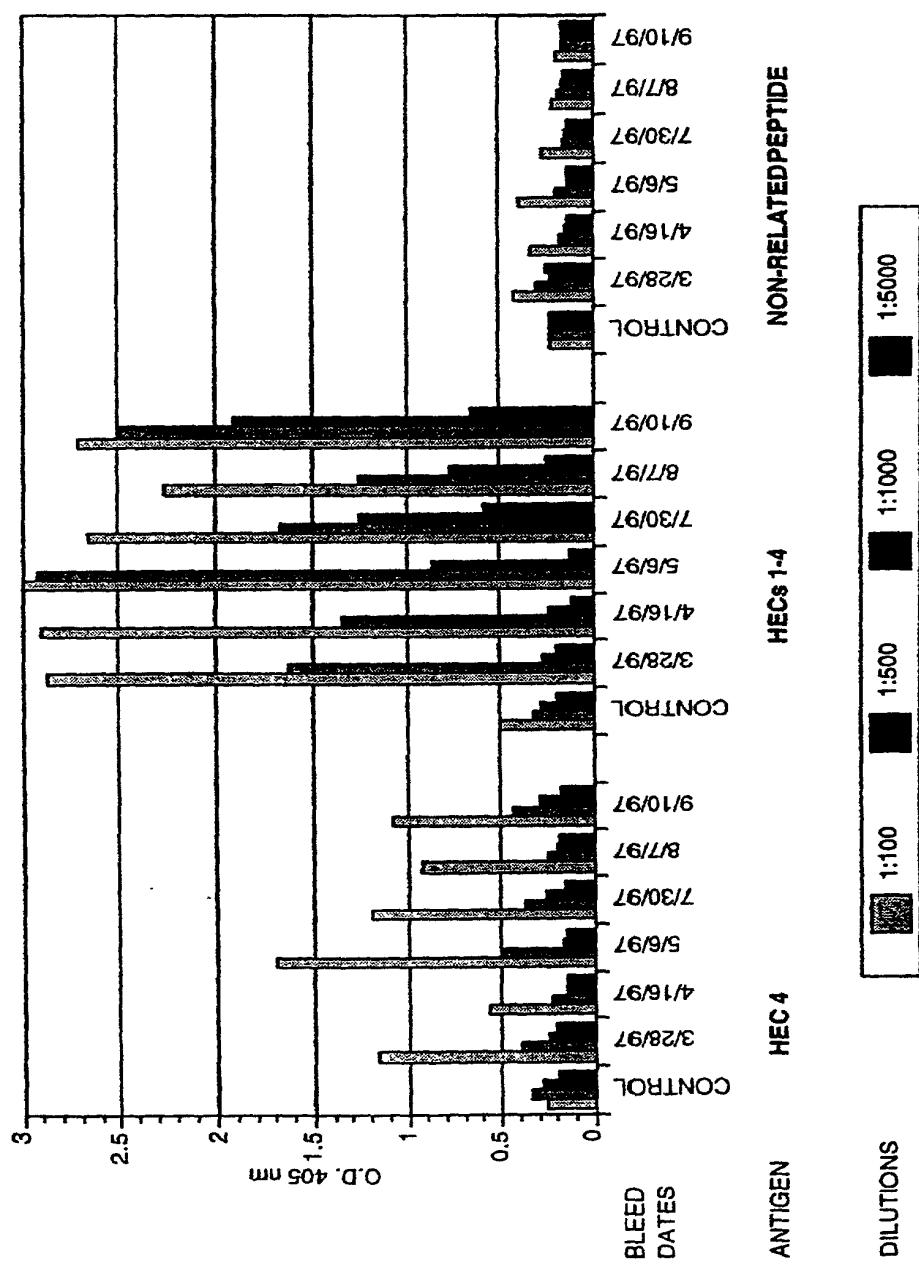


FIG. 11

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FIG. 12



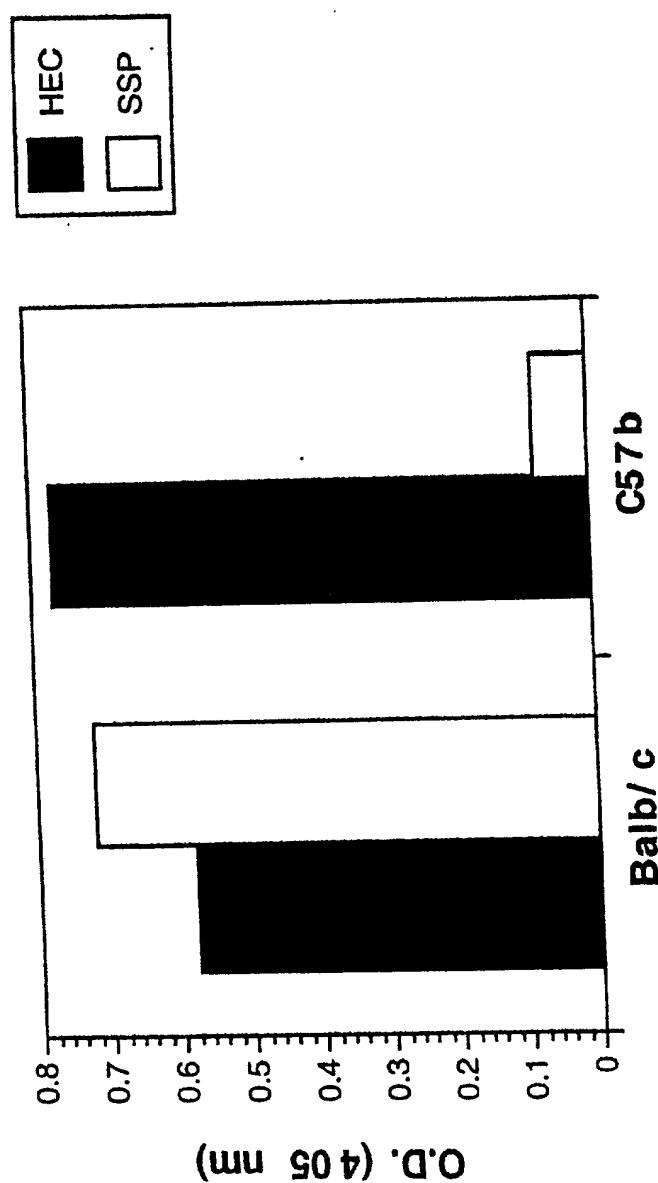


FIG. 13

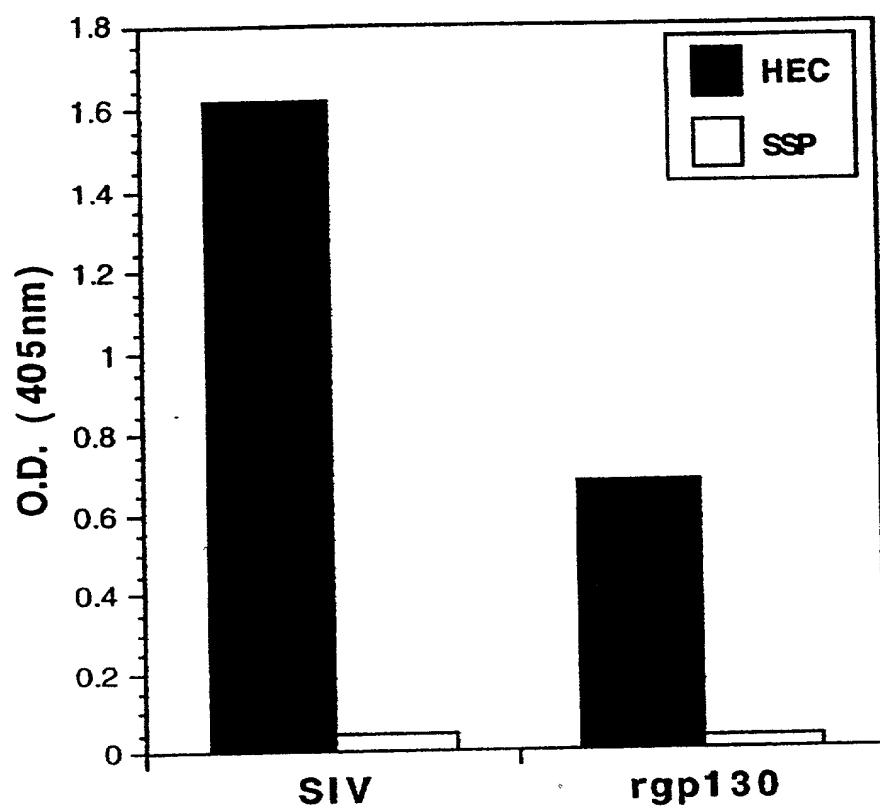


FIG. 14

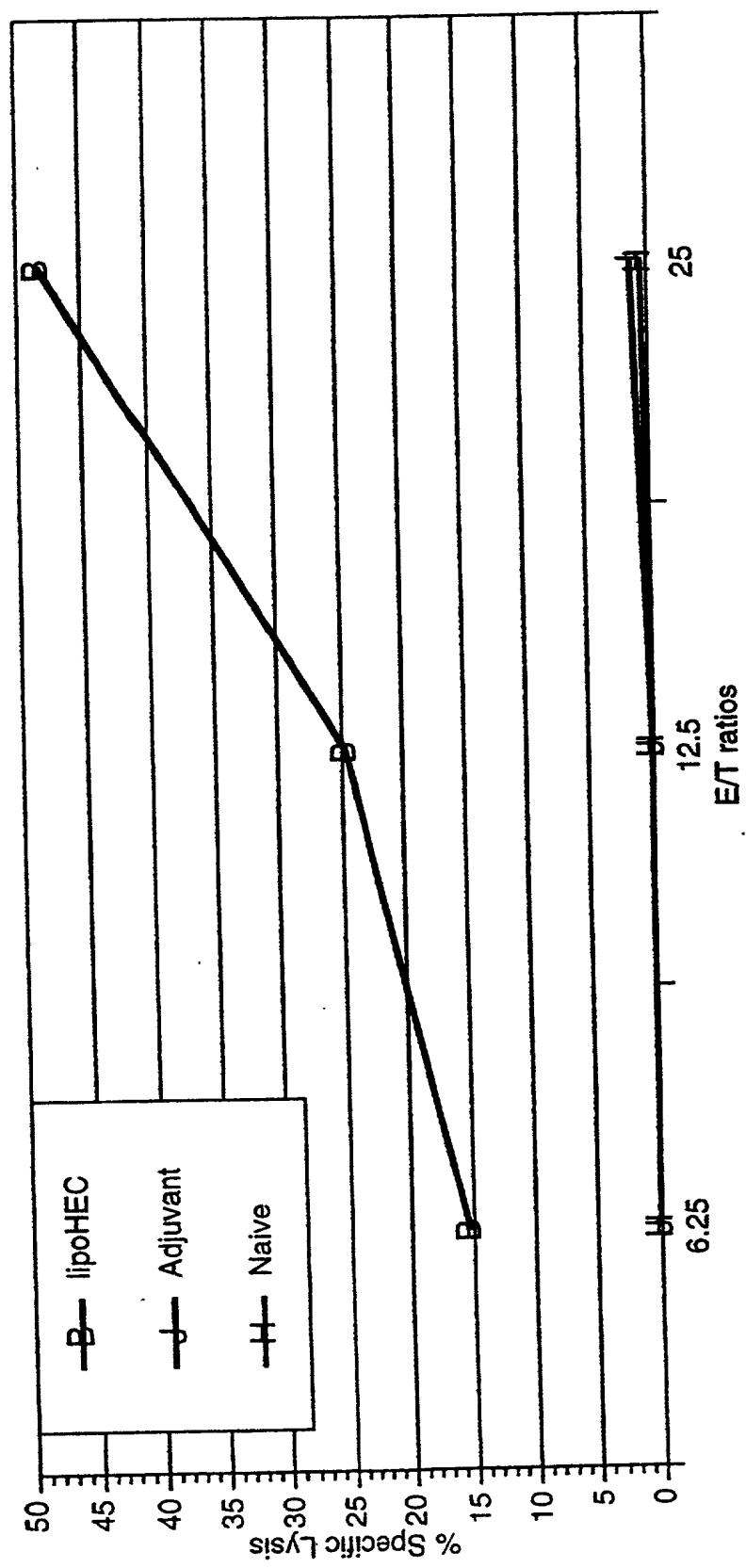


FIG. 15

FIG. 16